CICS Family Update

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IBM CICS® User Conference 2009

Agenda

- A short celebration ©
 - Quick Birthday Quiz
 - Some Milestones to Reminisce to...
- Meet the CICS Family
 - CICS Transaction Server
 - CICS Transaction Gateway, TXSeries & CICS Tools
- Other Products in the CICS Ecosystem
 - PD Tools & Rational Developer for System z
- What the Future Holds...
 - CICS Focus Areas
 - Agile Development Programs

Happy Birthday



CICS



Quick Birthday Quiz!!

- In of 1969, IBM announced the System/360 Customer Information Control System program product.
- The basic control system modules needed up to _____,000 bytes of core storage.
- A system supporting:
 - 50 hardcopy terminals
 - 3 file data sets
 - 100 programs
 - 50 transaction types,
 - 50 queues

...needed about another ______,000 bytes for tables and work areas.

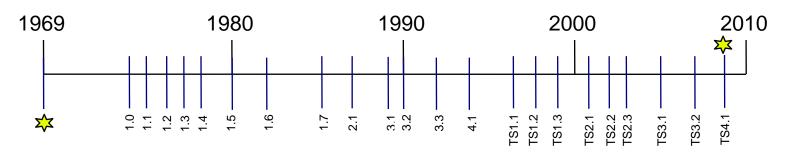
All that was yours for \$____00 a month.

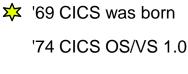


is probably the most successful piece of software of all time...It is the mainstay of business computing throughout the world...Millions of users unknowingly activate every day, and if it were to disappear the world economy would grind to a halt."

- Phil Manchester, Personal Computer Magazine

Things to do by the time you are 40....





'75 CICS OS/VS 1.1

'76 CICS OS/VS 1.2

'77 CICS OS/VS 1.3

'78 CICS OS/VS 1.4

'80 CICS OS/VS 1.5

- '82 CICS OS/VS 1.6
- '85 CICS OS/VS 1.7
- '87 CICS MVS 2.1
- '89 CICS MVS/ESA 3.1
- '90 CICS MVS/ESA 3.2
- '92 CICS MVS/ESA 3.3
- '94 CICS MVS/ESA 4.1

- '96 CICS TS 1.1
- '97 CICS TS 1.2
- '99 CICS TS 1.3
- '01 CICS TS 2.1
- '02 CICS TS 2.2
- '03 CICS TS 2.3
- '05 CICS TS 3.1
- '07 CICS TS 3.2

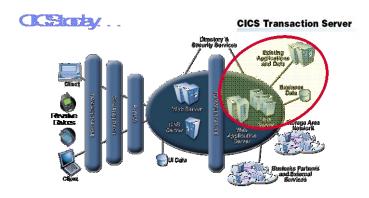
(and that was just the beginning...)



'09 CICS TS 4.1 🕸

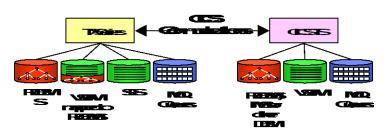
CICS Transaction Server

The worlds most popular transaction processor



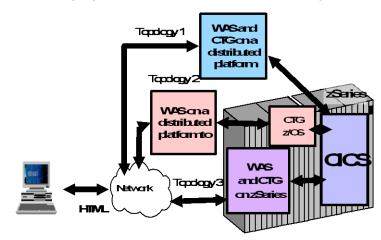
TXSeries

IBM's popular distributed CICS offering



CICS Transaction Gateway

The most popular connector from WebSphere to CICS



CICS Tools

Optimise Management of CICS
Transform and Reuse CICS Applications
CICS Governance and Compliance

CICS Transaction Server

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CICS Tools

Optimise Man remer C/
Transform and C
CICS Govern New Versions

CICS Transaction Server

CICS TS V4

- Managed beta since January 2008
- Announced April 28th 2009,
- ▶ Open Beta since March 31st 2009
- ▶ Generally Available since June 26th 2009 !!!



CICS TS V3

- Continues to be Fastest Version uptake in our history
- Key business attraction is Web Service Enablement
- SOA Reuse of existing CICS Services and Applications
- Early exposure to V4 function through Supportpacs and Feature Pack

CICS TS V2

- Announced withdrawal from marketing of CICS TS V2.3 effective Jan 14th 2008
- Announced end of service of CICS TS V2.3 effective September 30th 2009
- CICS TS V2.2 and below is out of support





Designed to help you address three key business issues:

- the need to **compete** in an increasingly challenging financial climate,
- the need to <u>comply</u> with corporate, industry, and national regulatory requirements
- the need to control costs and other key aspects of your IT processes.

CICS TS V4.1 truly takes CICS to the next level

- New Modern Image
- CICS Explorer helps remove Skills and Complexity Barriers
- Packed with Traditional Value
- Platform for new modern programming models

Not quite ready to upgrade from CICS TS V3?

No problem, you can use the freely available SupportPacs to accelerate technology adoption

More on this soon....







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More on this soon....



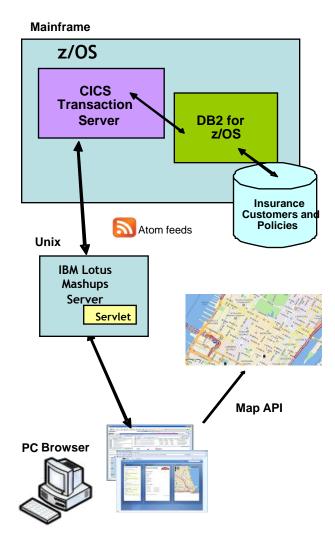


CICS TS V4.1 - Compete

- Native support for Web 2.0 technologies
 - RESTful Web services
 - Atom support
- Service Component Architecture
- Application Bundles
- Web services enhanements
 - Web services addressing
 - Improvements to XML data mappings
- Business Event Processing

CICS Web 2.0 ATOM Feeds

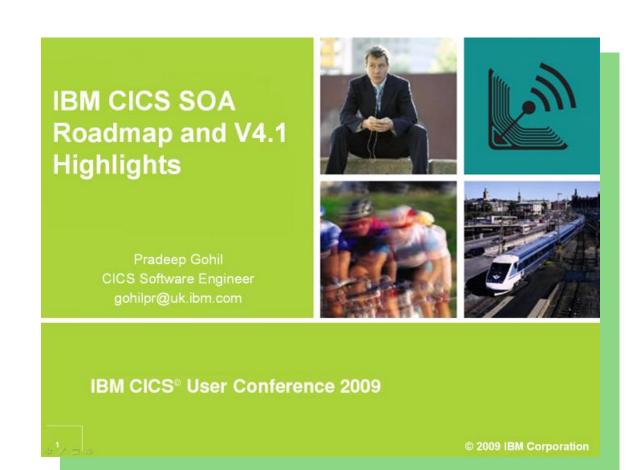
- Enable CICS applications to
 - Provide live information for Web 2.0 consumption
 - Integrate with related data
 - Give full picture in a single holistic view
- Make new kinds of applications based on up-to-date content and information
 - Decision-support tools for knowledge workers
 - Composite user interfaces for expert workers
 - Information feeds & widgets to consumers for use in their own mashups
- Develop using WebSphere sMash or Rational Developer for z with EGL
- In CICS V3, use SupportPac CA8K to generate feeds



High level architecture: CICS Atom feeds

More on this soon....





CICS TS V4.1 - Comply

Corporate Governance

- Non-invasive event emission to feed business event processing products like WebSphere Business Events, and business dashboards like WebSphere Business Monitor
 - CICS event tooling based on CICS Explorer

IT Governance

- Improved management of resource definitions
- Exploitation of Identity Propagation
- Security improvement for DB2 users
- ▶ Enhanced JVM environment for system components

SOA Governance

Full support for WSRR to publish and read Web service descriptions

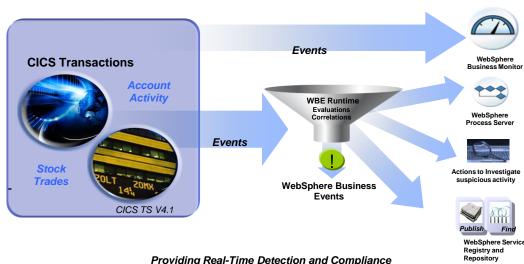
CICS Event Processing

Enable CICS applications to

- Produce CICS events for consumption by WebSphere Business Events
- Point of integration to BPM portfolio

Display CICS events on a business dashboard

- Non-intrusive instrumentation of programs event emission
- Near real-time analysis and alerts
- Quick identification & response to out of line situations
- Application designers instrument the behaviour of applications non-intrusively
- Extend application business value safely with a short, optimized delivery cycle
- Reduced risk, cost and time to implement change



Capture mainframe event sources for smarter business outcomes

More on this soon....





CICS TS V4.1 - Control

Systems management

- CICS Explorer the New Face of CICS
- RESTful SPI Server enablement for universal exploitation
- CICS system management client API
- Software Development Kit (SDK) for customer and ISV extensions
- New system programming commands for managing CSDs
- Improvements in CICS monitoring
- Dynamic Workload Management for high volume customers
- ▶ Enable Tivoli end-to-end tooling via DLAs and CCMDB

Sub-system enhancements

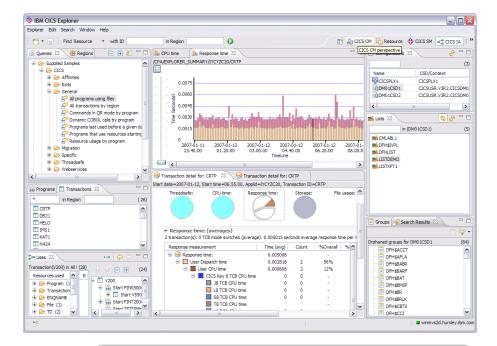
- IPIC support for Transaction Routing, non-terminal STARTs
- ▶ IP V6 support
- WebSphere MQ queue-sharing groups

Increase Productivity with the CICS Explorer

- Simplified access to CICS
 - Extending the success of eclipse based Explorers to CICS
 - Delivering revolutionary integration of development, administrative, and operations tools
- Shorter development cycles
- Faster time to market
- Improve productivity and protect service-levels
- New staff are effective more quickly

 Reduced cost of ownership for key CICS applications

New version now fully supported!



- "1000 times better than the previous UI."
- Customer
- "I believe it will be greatly received in our environment. Two of our development groups are keen to try it as soon as it becomes available." - Independent Software Vendor

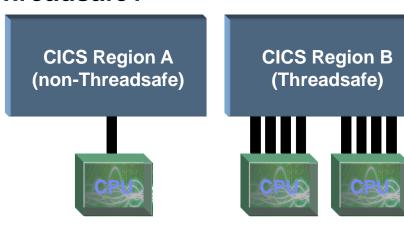
More on this soon....





A quick word about Threadsafe

What is Threadsafe?



CICS Transaction Server introduced Threadsafe processing as a facility to increase throughput while reducing processing costs for your CICS business transactions.

Why should you care?



Real Results

- Saved enough CPU to introduce major new service without capacity upgrade
- Saved chargeback costs of over \$500,000 for one application
- Response Time Savings of up to 37% for one application
- CPU Usage savings of up to 65% for one application

Figures presented by a Merrill Lynch VP at IMPACT 2008

Customer Reference



Company

One of the largest insurance companies in Germany, offering a range of insurance and home loan products. It insures more than 8.5 million clients.

Challenge

▶ HUK-COBURG needed to reduce CPU usage in its IBM System z9® to cut operating costs. Upgrades had to be performed without adversely affecting its business.

Solution

Implemented threadsafe following guidance provided at CICS Threadsafe workshop and hands-on usage of the IBM CICS tools (CICS PA, CICS IA, & CICS CM.

Benefit

"We've embraced threadsafe functionality to help us cut our CPU usage by 550 MIPs, or about US\$440,000 in annual operating expense - which really proves the efficacy of IBM CICS technology."

WSC14077-USEN-00

More on this soon....





CICS Transaction Server

The worlds most popular transaction processor



TXSeries IBM CICS offering New Version

CICS Transaction Gateway

The most popular connector from WebSphere to CICS



CICS Tools

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CICS Govern New Versions

CICS Transaction Gateway V7.2



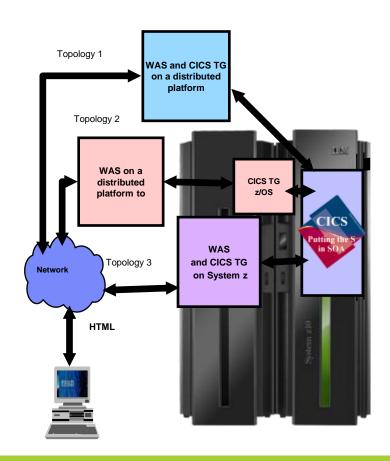
CICS Transaction Gateway is IBM's strategic connector from WebSphere to CICS, production proven in over a thousand customer environments

Key Characteristics:

- High performing, security-rich and scalable
- Standard JCA interface is strategic and provides best Qualifies of Service
- Minimal or no changes required for CICS applications to leverage value in an SOA

New with CICS Transaction Gateway 7.2

- Improved business flexibility, delivered through transactional support across a balanced CICS environment
- New CICS connectivity for remote clients in C runtime, enabled for exploitation within .NET environment
- Enhanced systems monitoring API, providing for integration with CICS Explorer



More on this soon....



Strategic Options for IP Modernization

Noel Javier C. Sales
Software Engineer zCICS
Development









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The worlds most popular transaction processor





CICS Transaction Gateway

The most popular connector from WebSphere to CICS



CICS Tools

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TXSeries for Multiplatforms V7.1



TXSeries runs and supports CICS Transactions on Distributed platforms

Key Characteristics:

- An application deployment platform for C, C++, Java COBOL and PL/I applications
- Supports a subset of CICS API
- Integrated inside RDz as part of a local application development environment

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New with TXSeries V7.2

- Simplified Interoperability with CICS and CTG over TCP/IP
- Support for Channels and Containers
- Enhanced TXSeries Admin Console
- Improved system resilience and debugging

Statement of Direction

Announcement 209-040 (17th March 2009)

"IBM intends, during the second half of 2009, to deliver new inbound SOAP interface support specifically for, TXSeries to support the standard-based in bound SOAP interface for application integration. This capability will then allow TXSeries-based applications to be integrated into an SOA environment, enabling them to be made available as services."

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CICS Transaction Gateway

The most popular connector from WebSphere to CICS





CICS Tools



CICS Interdependency Analyzer (IA)

Collect active application inventory for efficient resource understanding



CICS Configuration Manager (CM)

Administrating and maintaining CICS resource definitions



CICS Performance Analyzer (PA)

Batch performance reporting/analysis for tuning and capacity planning



CICS VSAM Transparency (VT)

Enable VSAM to DB2 migration without changes to existing applications

CICS VSAM Recovery (VR)

Automate the recovery of lost VSAM data



CICS Batch Application Control (BAC)

Manage state of file resources from a batch program

IBM Session Manager (ISM) and CL/SuperSession (CL/SS)

Access to multiple z/OS applications from a single terminal

CICS OTTO (OTTO)

Optimize outbound 3270 data streams to improve performance



More on this soon....





PD Tools V9

File Manager for z/OS

Data management tool supporting key file structures like VSAM, DB2, CICS, and IMS



Fault Analyzer for z/OS

Helps you rapidly pinpoint cause of failed application (abends)

Debug Tool for z/OS

Source code debugging to improve development productivity

<u>Application Performance Analyzer for z/OS</u>

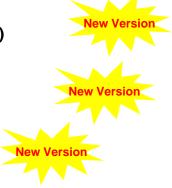
Monitor performance at the application level

Workload Simulator for z/OS and OS/390

Regression and Load testing of interactive z/OS applications

Optim Move for DB2

Export and import related sets of DB2, IMS, VSAM and sequential data



And yet more new versions coming soon!

IBM Rational Developer for System z V7.5



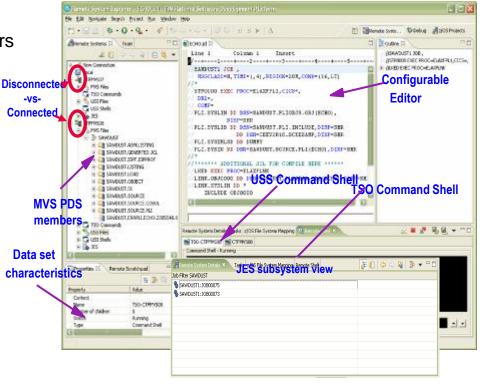
Eclipse Based Platform for Enterprise (Cobol, PL/I. C/C++, Java) Applications

Key Characteristics:

- Provides Local and Host based Application Development platform for CICS
- Integrates with host Source Control Managers (eg SCLM)
- Supports cross platform debugging
- Supports Web Service creation and Service Flow Modelling for CICS

New CICS support in RDz V7.5

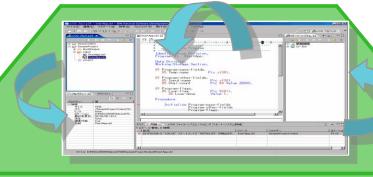
- Integration with CICS Explorer
- Application Deployment Bundles
- Service Composition Tooling
- Tooling for CICS Events
- Integration with IBM PD Tools



A completely unique suite of integrated Application Development and Problem Determination tooling for System z ...

Modern, end-to-end application development and debugging for System z

Made possible through IBM's unique Rational Developer for z integration





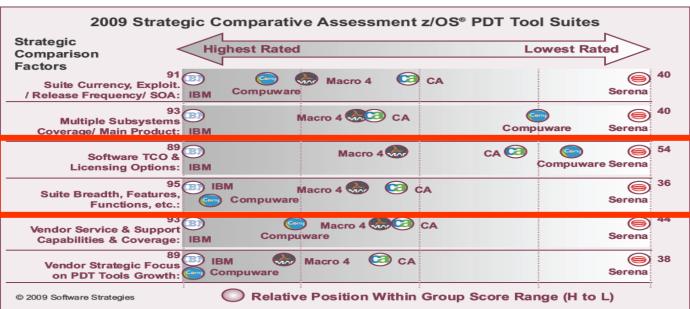
(STILL) NOBODY ELSE IN THE MARKET HAS THIS TODAY!

Manager

WAS/z

IBM PD Tools rated #1 in marketplace (again)





Software Strategies z/OS® PDT Suites/Vendors Strategic Comparison Rankings – December 2008				
Rank	z/OS* PDT Vendor	Total Weighted Score <i>(TWS)</i> +	July 2007* TWS & Rank	TWS Change (& % change) 2008 from 2007
# 1	IBM	11,285	10,330 <i>(# 1)</i>	+955 (+9.2%)
# 2	Compuware	9,453	8,505 <i>(# 2)</i>	+948 (+11.1%)
# 3	Macro 4	9,127	7,825 <i>(=# 3)</i>	+1,302 (+16.6%)
# 4	CA	8,330	7,825 <i>(=#3)</i>	+505 (+6.5%)
# 5	Serena Software	5,286	5,315 <i>(# 5)</i>	-29 (-0.5%)
*From our July 2007	ppendix D Figure D1, page 42 for deta ^{2rd Edition White Paper for December 2008, to reflect changing}			

January 2009 Analyst Report – Software Strategies

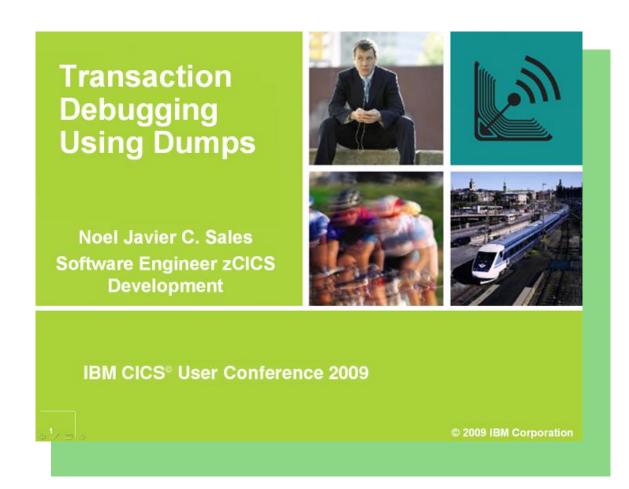
More on this soon....





More on this soon....





What does the future hold for CICS...

Internal Focus Areas:

- Continue Building on Existing CICS Strengths
- Continue Encouraging the Development of Modern CICS Applications
- Continue to Open CICS up to New Technologies and new Business Models
- Continue to Leverage the Broader IBM Portfolio for a complete solution

External Focus Areas:

- Image and Vitality
- Skills
- Cost
- Support for the ecosystem



Come and talk to us....

....we are taking requirements for the next release of CICS TS now.

Agile Delivery and Responsiveness

- Expect CICS Explorer enhancements every 90 days
- Expect CICS Tools, CICS Transaction Gateway and TXSeries to continue on roughly annual release cycles
- Interval between CICS releases continues to be 18-24 months....
- However:
 - New Agile development methodology adopted
 - Iterative Development Process
 - Scenario based testing
 - Continuous Beta Testing
 - Early delivery via supportpacs to gain early customer validation and feedback
 - WebServices in CICS TS V2 and V3
 - WSRR supportpac in CICS V3.2
 - Events supportpac in CICS V3.2
 - Web 2.0 ATOM feed supportpac in CICS V3.2
 - PHP Scripting supportpac in CICS V3.2
 - CICS Explorer for V3.1 and 3.2

Ongoing Beta programs

- Innovation around an old concept...
 - Beta programs are one of the best ways to ensure Day 1 quality
 - CICS TS 4.1 closed beta and ISV partner program started in Jan 2008
 - Regular iterations of beta code using agile development process
 - 30 customers and 40 ISVs
 - CICS TS V4.1 open beta available from March 2009
 - 150+ participants
 - Up from 100+ participants for CICS TS V3.2 open beta

Why is this important?

- Length of the beta program
- Testing in 'real' customer environments
- Means CICS TS 4.1 is ready for you today

Get Involved:

- Open beta program for CICS TS V4.1 closes end July 09
- Register your interest in future CICS beta programs:
 - CICSEP@uk.ibm.com



Summary

- We wished CICS a very happy 40th Birthday
 - ▶ (and found out how old some of us are ☺)
- We Met the CICS Family
 - CICS Transaction Server
 - CICS Transaction Gateway, TXSeries & CICS Tools
- We Met some of other Products in the CICS Ecosystem
 - ▶ PD Tools & Rational Developer for System z
- We looked what the Future holds for CICS
 - CICS Focus Areas
 - Agile Development Programs
 - How you can get involved



Thank You

Any Questions?









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